

Micronas.6287

Claims

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Amend claim 12 as follows:

1.(Previously Amended) A capacitive sensor with a first electrode and a second electrode, which are spaced apart from one another and which form a measurement capacitance, such that the first electrode is situated on a first substrate body and the second electrode on a second substrate body, and the second substrate body is designed as a deformable membrane in the vicinity of the second electrode, characterized in that a magnetic body is disposed in the vicinity of the second electrode and the membrane, which magnetic body is connected to the membrane and to the second electrode in such a way that a change of position of the magnetic body, induced by an external magnetic field, will cause a change of position of the second electrode via the membrane, resulting in a capacitance change, wherein said capacitive sensor further comprises an electronic arrangement situated in the first substrate body below the first electrode affixed thereon for processing the measurements signals.

2.(Previously Amended) The capacitive sensor of claim 1, wherein the second electrode and the magnetic body are situated on opposite sides of the membrane.

3.(Previously Amended) The capacitive sensor of claim 2, wherein the magnetic body is formed as a thin layer.

4.(Previously Amended) The capacitive sensor of claim 3, wherein the magnetic body contains ferromagnetic material.

5.(Canceled)

6.(Canceled)

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7.(Currently Amended) The capacitive sensor of claim 1, wherein a first part of the electronic arrangement for processing the measurement signals is situated in the first substrate body and a second part of the electronic arrangement for processing the measurement signals is situated in the second substrate body.

8.(Previously Amended) The capacitive sensor of claim 1, wherein the electronic arrangement for processing the measurement signals has elements to amplify the measurement signal.

9.(Previously Amended) The capacitive sensor of claim 1, wherein the electronic arrangement for processing the measurement signals has elements for applying a voltage signal across the first and second electrodes.

10.(Previously Amended) The capacitive sensor of claim 1, wherein at least one of the electrodes is formed as at least one conductor track.

11.(Previously Amended) The capacitive sensor of claim 10, wherein the conductor track is part of the electronic arrangement for processing the measurement signals.

12.(Currently Amended) The capacitive sensor of ~~one of~~ claim 11, wherein the first electrode is configured and arranged with respect to the second electrode to provide a space-resolving measurement.

13.(Previously Amended) The capacitive sensor of claim 12, wherein the first electrode has mutually parallel, strip-shaped elements.

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14.(Previously Amended) The capacitive sensor of claim 13, wherein the electronic arrangement for processing the measurement signals processes the measurement signals to provide the space-resolving measurement.